STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.	MO-0102237
Owner:	Union Pacific Railroad
Address:	1400 Douglas Street, STOP 1030, Omaha, NE 68179-1030
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Union Pacific Railroad – Poplar Bluff Yard
Facility Address:	400 South Main Street, Poplar Bluff, MO 63901
Legal Description:	NE ¼, NE ¼, Sec. 10, T24N, R6E, Butler County
Receiving Stream:	Black River (P)
First Classified Stream and ID:	Black River (P)(02769)
USGS Basin & Sub-watershed No.:	(11010007-080003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 – Storm water runoff discharge from railroad facility engaged in railcar repair, maintenance, fueling of locomotives and material storage, and a groundwater recovery and treatment (oil water separation) system/Sludge is sold to recycling company.
Design flow is 144,000 gallons per day.
Actual flow is 16,000 gallons per day.
Outfall #002 – Discharge (tributary to Outfall #001) from multiple groundwater recovery wells and a common oil water separation treatment system. Flow from (Outfall #002) varies with groundwater levels.
An average flow of 9,300 gallons per day and duration of 300 pumping days per year is anticipated.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

February 26, 2004 — July 14, 2004
Effective Date — Revised

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

February 25, 2009
Expiration Date

Gary L. Gaines, P.E., Director, Southeast Regional Office

MO 780-0041 (10-93)

PERMIT NUMBER MO-0102237

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 – Storm water runoff and discharge from Oil Water Separator						
Flow	MGD			*	once/quarter	24 hr. estimate
Chemical Oxygen Demand	mg/L	*		*	once/quarter	grab**
Setteable Solids	ml/l/hr	1.5		1.0	once/quarter	grab**
pH – Units	SU	***		***	once/quarter	grab**
Oil & Grease	mg/L	15		10	once/quarter	grab**
Total Petroleum Hydrocarbons	mg/L	10		10	once/quarter	grab**
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE July 28, 2004.						
Total Toxic Organics (Note 1)	mg/L	*		*	once/5 year	****
MONITORING REPORTS SHALL BE SUBMITTED ONCE/5YEARS; THE FIRST REPORT IS DUE January 28, 2005.						
Outfall #002 - Oil Water Separator – Groundwater Remediation						
Flow	MGD	*		*	once/month	24 hr. estimate
Total Suspended Solids	mg/L	*		*	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab
pH - Units)	SU	***		***	once/month	grab
Benzene	mg/L	0.071		0.071	once/month	grab
Toluene	mg/L	200		200	once/month	grab
Ethylbenzene	mg/L	0.32		0.32	once/month	grab
Xylene	mg/L	*		*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE April 28, 2004. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.

** A representative grab sample shall be collected during the first hour of rainfall which exceeds 0.1 inches and results in a discharge.

*** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

**** A flow-weighted composite sample must be collected and analyses submitted during the first year of permit issuance. Sample can be collected using either automatic sampling equipment or by manually collecting and combining a minimum of eight (8) equal volume grab samples collected over equal time intervals. Sample can be collected during either the entire runoff event (which may be less than 3 hours) or during at least the first 3 hours of runoff; total period not to exceed 24 hours.

Note 1 - See Total Toxic Organics Page

Total Toxic Organics (Note 1)

Acenaphthene
Acrolein
Acrylonitrile
Benzene
Benzidine
Carbon Tetrachloride (tetrachloromethane)
Chlorobenzene
1,2,4-trichlorobenzene
Hexachlorobenzene
1,2-dichloroethane
1,1,1-trichloroethane
Hexachloroethane
1,1-dichloroethane
1,1,2-trichloroethane
1,1,2,2-tetrachloroethane
Chloroethane
Bis (2-chloroethyl) ether
2-chloroethyl vinyl ether
N-nitrosodi-n-propylamine
Pentachlorophenol
Phenol
Bis (2-ethylhexyl) phthalate
Butyl benzyl phthalate
(dibenzo(a,h)anthracene)
Di-n-butyl phthalate

Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
1,2-benzanthracene (benzo(a)anthracene)
Benzo(a)pyrene (3,4-benzopyrene)
3,4-benzofluoranthene (benzo(b)fluoranthene)
11,12-benzofluoranthene (benzo(k)fluoranthene)
Chrysene
Anthracene
1,12-benzoperylene (benzo(ghi)perylene)
Fluorene
2-chloronaphthalene
2,4,6-trichlorophenol
Parachlorometa cresol
Chloroform (trichloromethane)
2-chlorophenol
1,2-dichlorobenzene
1,3-dichlorobenzene
1,4-dichorobenzene
3,3-dichlorobenzidine
1,1-dichloroethylene
1,2-trans-dichloroethylene
2,4-dichlorophenol
1,2-dichloropropane (1,3-dichloropropane)
2,4-dimethylphenol
2,4-dinitrotoluene
2,6-dinitrotoluene
1,2-diphenylhydrazine
Ethylbenzene
Fluoranthene
4-chlorophenyl phenyl ether
4-bromophenyl phenyl ether
Bis (2-chloroisopropyl) ether
Bis (2-chloroethoxy) methane
Methylene Chloride (dichloromethane)
Methyl Chloride (chloromethane)
Methyl bromide (bromomethane)
Bromoform (tribromomethane)
Dichlorobromomethane
Chlorodibromemethane
Hexachlorobutadiene
Hexachlorocyclopentadiene
Isophorone
Naphthalene
Nitrobenzene
2-nitrophenol
4-nitrophenol
2,4-dinitrophenol
4,6-dintro-o-cresol
N-nitrosodimethylamine
N-nitrosodiphenylamine
Phenanthrene
1,2,5,6-dibenzanthracene

Indeno (1,2,3-cd) pyrene
(2,3-o-phenylene pyrene)
Pyrene
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl Chloride (chloroethylene)
Aldrin
Dieldrin
Chlordane (technical mixture and metabolites)
4,4-DDT
4,4-DDE (p,p-DDX)
4,4-DDD (p,p-TDE)
Alpha-endosulfan
Beta-endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide (BHC hexachlorocyclohexane)
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC (PCB polychlorinated biphenyls)
PCB-1242 (Arochlor 1242)
PCB-1254 (Arochlor 1254)
PCB-1221 (Arochlor 1221)
PCB-1232 (Arochlor 1232)
PCB-1248 (Arochlor 1248)
PCB-1260 (Arochlor 1260)
PCB-1016 (Arochlor 1016)
Toxaphene

C. SPECIAL CONDITIONS

Note: These requirements do not supersede nor remove liability for compliance with county and other local ordinances.

1. Report as no discharge when a discharge does not occur during the report period.

2. The discharge of storm water from these facilities shall not cause a violation of the state water quality general criteria 10 CSR 20-7.031(3).

3. There shall be no visible sheen of oil and grease on the surface of the receiving stream.

4. Permittee shall adhere to the following Best Management Practices:

   a. Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehousing activities and thereby prevent the contamination of storm water from these substances.

   b. Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.

   c. Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention, control, and/or management sufficient to prevent any spills of these pollutants from entering a water of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.

   d. Provide good housekeeping practices on the site to keep trash from entry into waters of the state.

   e. Designate an individual as responsible for environmental matters. Provide for inspection by facility staff, on workdays, of any structures that function to prevent pollution from storm water or to remove pollutants from storm water and of the facility in general to ensure that any Best Management Practices are continually implemented and effective.

   f. Train all involved personnel in material handling and storage, and housekeeping of maintenance areas. Proof of training shall be submitted on request.

5. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, including spill prevention, control and counter measures.

6. Substances, regulated by federal law under the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), that are transported, stored, or used for maintenance, cleaning or repair, shall be managed according to RCRA and CERCLA.

7. There shall be no release of polychlorinated biphenyl compounds (PCBs) to waters of the state at or above the level of quantification currently defined as 1 µg/L or 1 ppb.

8. Within thirty (30) days of permit issuance, permittee shall construct a permanent marker or monument at sampling location (outfall).

C. SPECIAL CONDITIONS (continued)

9. This permit may be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C), and (D), 304(b) (2) and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved: (reopener)

   (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

   (b) Controls any pollutant not limited in the permit. The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.